Hw4 for CS2305

Zhuohao Li [*]

Shanghai Jiao Tong University

June 1, 2022

Q: **You are given a non-pipelined processor design which has a cycle time of 10ns and average CPI of 1.4. Which one is <u>NOT</u> correct in the following statements?**

A. **If the pipeline stalls 20% of the time for 1 cycle and 5% of the time for 2 cycles, the new CPI is 1.8**

B. **The best speed up we could get by pipelining it into 5 stages is 5X**

C. **If the 5 stages are 1ns, 1.5ns, 4ns, 3ns, and 0.5ns, the best speedup is 2.5X**

reference

- CS152/CS253A,22spring, EECS Berkeley

- CS252, 1999fall, EECS Berkeley

---

[*]519021911248 | email: edith_lzh@sjtu.edu.cn